



U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE CENTER
WASHINGTON, D.C. 20233

NOV 22 1966

November 15, 1966

IN REPLY REFER TO: S1

Professor Verner E. Suomi
Department of Meteorology
The University of Wisconsin
Madison, Wisconsin 53706

Dear Verne:

I was very pleased to hear that the data from the radiometers are proving so successful. If the sensors continue to work this well, as I am sure they will, we should have a most useful data set in hand by the end of ESSA 3's life.

We will have the raw count data for the remainder of the early orbits completed for you in the very near future, and this will include the necessary solar information as well. I will insure that it is prepared and shipped to you as expeditiously as possible.

Data reduction of the bulk of the data must be contingent on the calibration values and "inflight" calibration procedures. Meanwhile, I am having most of the data processed into raw count information, associated with the necessary geographical and time values. We are ready now to produce daily output of such raw count radiometer data and will continue to reduce backlogged data as computer time permits. Except for a few days after the first 30 orbits, the data on backlog have been preserved in analog form on tape. About one third of that backlog has now been processed and the remainder will also be processed in the next month or two.

We hope that your group will continue to investigate the best manner in which satellite signals can be converted to radiation values. We are also asking Fred House to study this problem and we plan to work on it ourselves too. A three-way exchange has already been established and we plan to continue this exchange until a solution is agreed upon.

We will certainly keep you and your associates fully cognizant of the procedures used in our data reduction, and any changes in

such procedures as they may occur. We are awaiting the determination of the calibration procedures, so that we may begin processing the raw counts tapes into radiation or temperature values. I will provide further information on our progress as it becomes available.

Sincerely,



David S. Johnson, Director
National Environmental Satellite Center

I understand you will be here on Dec. 5. Looking forward to your visit. Will you be able to join Betty + me for dinner on the 4th or 5th?

Reminder: I still haven't received your reply to my letter of last summer on AMS Committee on Atmospheric Measurements matters. How about taking 10-15 minutes to dictate a brief answer?



November 30, 1966

Note: Copy of this correspondence sent to
Kirby Hanson on 11/30/66 per Dr. Suomi's
request.